

CLAIMS:

1. A household appliance comprising a fluid (2) dispensing system for dispensing a fluid (2) and a dosing system for dosing an additive (12) into said fluid (2);
said fluid (2) dispensing system comprising fluid supply means (3, 8), a dispensing nozzle (5), and a conduit (6) connecting said supply means to said dispensing
5 nozzle (5);

said dosing system comprising an additive reservoir (14) for containing the additive (12) and an outlet (22) connecting the additive reservoir (14) to the dispensing system; and

said fluid supply means comprising pumping means (8, 15, 16, 20, 35) for
10 pumping the fluid (2) and the additive towards the dispensing nozzle (5);

characterized in that the outlet (22) of the additive reservoir (14) communicates with the conduit (6) in a position downstream of said pumping means (8, 15, 16, 20, 35).

15 2. An appliance as claimed in claim 1, wherein the pumping means (8, 15, 16, 35) comprise first pumping means (8) for pumping fluid (2) from the supply means towards the dispensing nozzle (5) and second pumping means (15, 16, 20, 35) for pumping additive (12) from the additive reservoir (14) to the conduit (6).

20 3. An appliance as claimed in claim 2, wherein the second pumping means comprise driving means (16, 20, 35) and a displaceable or deformable separation (15) bounding an additive chamber (18) of the additive reservoir (14) for receiving the additive (12), the driving means (16, 20, 35) being adapted for exerting a driving force on said separation (15) for forcing additive (12) out of said chamber (18) through the outlet (22)
25 towards the conduit (6).

4. An appliance as claimed in claim 3, wherein said driving means comprise an inlet (20) and a pressurizing chamber (16) of the reservoir (14) on a side of said separation (15) facing away from the additive chamber (18), said inlet (20) interconnecting said

pressurizing chamber (16) and said conduit (6) for applying fluid (2) pressure from the conduit (6) to said separation (15).

5. An appliance as claimed in claim 4, wherein said inlet (20) branches off from the conduit (6) in a position between the first pumping means (8) and the outlet (22).

6. An appliance as claimed in claim 5, further comprising a fluid flow restriction (24) in the conduit (6) between said inlet (20) and said outlet (22) for generating a pressure drop between said inlet (20) and said outlet (22).

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7. An appliance as claimed in any one of the claims 4 to 6, further comprising an inlet flow restriction (25) in the inlet (20) for adjusting the flow rate of fluid towards the pressurizing chamber (16).

15 8. An appliance as claimed in any one of the preceding claims, further comprising an outlet flow restriction (30) in the outlet (22) for controlling the flow rate of additive towards the conduit (6).

9. An appliance as claimed in claims 3 and 8, wherein the driving means
20 comprise a spring (35).

10. A dispensing system for dispensing a fluid (2) and an additive (12) from a household appliance, comprising fluid supply means (3, 8), a dispensing nozzle (5), a conduit (6) connecting said supply means (3, 8) to said nozzle (5), pumping means (8, 15, 16, 20, 35)
25 for pumping the fluid (2) from said supply means towards said dispensing nozzle (5), an additive reservoir (14), and an outlet (22) connecting the reservoir (14) to the conduit (6), characterized in that the outlet (22) of the reservoir (14) communicates with the conduit (6) in a position downstream of said pumping means (8, 15, 16, 20, 35).